

WHAT IS CLAIMED IS

1. A setting tool, comprising a sleeve-shaped housing (11); a piston guide (13); a piston (15) displaceable in the piston guide (13); an ignition unit (12) located in the housing (11) and axially displaceable therein; a cartridge chamber (18) arranged between the piston guide (13) and the ignition unit (12), the ignition unit (12) having a cartridge chamber bottom (19) for enclosing a propellant (25) in the cartridge chamber (18) and an ignition element (22) for igniting the propellant (25); and a locking device (30) having a locking position (38) in which the ignition unit (12) is held in a pre-loaded position (28) against an energy accumulator (23) and in which the cartridge chamber (18) remains open, and having a release position (39) in which the ignition unit (12) is displaced to an ignition position (29) thereof by the energy accumulator in which the cartridge chamber bottom (19) closes the cartridge chamber (18).

2. Setting tool according to claim 1, wherein the ignition element (22) is fixedly secured on the ignition unit (12) and is displaceable therewith.

3. A setting tool according to claim 2, wherein the ignition element (22) is formed as an ignition peg.

4. A setting tool according to claim 1, wherein the locking device (30) comprises at least one pivotal locking element (31) formed as a locking pawl (41), and wherein the locking pawl (41) has a locking position in which a pawl section (42) of the locking pawl (41) extends into a displacement path of the ignition unit (12), and a release position in which the pawl section (42) is pivoted out of the displacement path of the ignition unit (12).

5. A setting tool according to claim 4, wherein the locking element (31) is pivotally supported on an axle (44) provided on the housing (11).

6. A setting tool according to claim 4, wherein the locking element (31) is pivotally supported on an axle (44) secured on servo-component (43) displaceable in the setting tool (10).

7. A setting tool according to claim 6, wherein the servo-component (43) is fixedly connected with the piston guide (13) for joint displacement therewith.

8. A setting tool according to claim 7, wherein the servo-component (43) is secured on the piston guide (13).

9. A setting tool according to claim 6, wherein the servo-component (43) is fixedly connected with the bolt guide (24) for joint displacement therewith.

10. A setting tool according to claim 9, wherein the servo-component (43) is secured on the bolt guide (24).

11. A setting tool according to claim 8, wherein a length of the servo-component (43) measured between a point of an attachment thereof to the piston guide (13) and the axle (44), which supports the locking element (31), at least corresponds to a maximal press-on path of the setting tool (10) when the setting tool is pressed against a constructional component.

12. A setting tool according to claim 9, wherein a length of the servo-component (43) measured between a point of an attachment thereof to the bolt guide (24) and the axle (44), which supports the locking element (31), at least corresponds to a maximal press-on path of the setting tool (10) when the setting tool is pressed against a constructional component.

13. A setting tool according to claim 4, further comprising switch means for displacing the locking element (31) from the locking position thereof (38) in which the locking element (31) engages the ignition unit (12).

14. A setting tool according to claim 1, further comprising safety means (33) having a release position (49) in which the safety means (33) does not extend into displacement path of the ignition unit (12), permitting displacement of the ignition unit in a direction toward the cartridge chamber (18), and having a locking position (48) in which the safety means (33) extends into the displacement path of the ignition unit, permitting displacement of the ignition unit (12) away from the cartridge chamber (18) but blocking the displacement of the ignition unit (12) in the direction toward the cartridge chamber (18).

15. A setting tool according to claim 19, wherein the safety means (33) comprises a catch pawl (46) pivotally supported on the setting tool.

16. A setting tool according to claim 4, further comprising spring means for biasing the locking element (31) to the locking position thereof in which it extends into the displacement path of the ignition unit (12).

17. A setting tool according to claim 14, further comprising spring means for biasing the safety element (33) to the locking position (48) thereof in which it extends into the displacement path of the ignition unit (12).

18. A setting tool according to claim 4, wherein the locking element (31) forms an entrain member with which the ignition unit (12) is displaced from the ignition position (29) thereof to the pre-loaded position (28) thereof.

19. A setting tool according to claim 18, further comprising crank means (54) for pivoting the locking element (31) from the locking position thereof in which the entrain member engages the ignition unit (12), to the release position thereof.

20. A setting tool according to claim 14, wherein the safety means (33) forms an entrain member with which the ignition unit (12) is displaced from the release position (29) thereof to the pre-loaded position (28) thereof.

21. A setting tool according to claim 20, further comprising crank means (54) for pivoting the safety means (33) from the locking position (48) thereof in which the entrain member engages the ignition unit (12), to the release position (49) thereof.

22. A setting tool according to claim 4, wherein the pawl section (42) of the pawl element (31) is spaced from a stop (17) provided in the housing (11), in the locking position (38) of the locking element (31), by a distance corresponding substantially to an axial length of the ignition unit (12).

23. A setting tool according to claim 22, further comprising a damping element (20) supported against the stop (17), and wherein the pawl section (42) of the locking element (31) is spaced from a stop (17) provided in the housing (11), in the locking position (38) of the locking element (31), by a distance corresponding substantially to the axial length of the ignition unit (12) and an axial length of the damping element (20).

24. A setting tool according to claim 1, further comprising a guide (36) for a cartridge strip (26) fixedly secured on the housing (11) and with which the cartridge strip (26) is spaced, in an inoperative position of the setting tool, from both the cartridge chamber (18) and the ignition unit (12).

25. A setting tool according to claim 1, further comprising a guide (36) for a cartridge strip (26) and fixedly secured to a side of the ignition unit (12) facing the cartridge chamber (18) for joint displacement with the ignition unit.